

Biodiesel from microalgae

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Multivariate near infrared spectroscopy models for predicting the methyl esters content in biodiesel. <i>Analytica Chimica Acta</i> , 2008, 607, 153-159.	2.6	73
3	A green light for engineered algae: redirecting metabolism to fuel a biotechnology revolution. <i>Current Opinion in Biotechnology</i> , 2008, 19, 430-436.	3.3	524
4	Treatment of dairy and swine manure effluents using freshwater algae: fatty acid content and composition of algal biomass at different manure loading rates. <i>Journal of Applied Phycology</i> , 2008, 20, 1079-1085.	1.5	169
5	High-density fermentation of microalga <i>Chlorella protothecoides</i> in bioreactor for microbio-diesel production. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 29-36.	1.7	457
6	CO ₂ bio-mitigation using microalgae. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 707-718.	1.7	983
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1341	Biomass production of <i>Scenedesmus obliquus</i> from mixtures of urban and olive-oil mill wastewaters used as culture medium. Applied Energy, 2013, 104, 345-352.	5.1	51
1342	Thermogravimetric study of the combustion of <i>Tetraselmis suecica</i> microalgae and its blend with a Victorian brown coal in O ₂ /N ₂ and O ₂ /CO ₂ atmospheres. Bioresource Technology, 2013, 150, 15-27.	4.8	93
1343	Algae biofilm growth and the potential to stimulate lipid accumulation through nutrient starvation. Bioresource Technology, 2013, 136, 337-344.	4.8	128
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1355	Pulsed Electric Field Treatment of Microalgae Benefits for Microalgae Biomass Processing. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2901-2907.	0.6	90
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1365	Radiation and optical properties of <i>Nannochloropsis oculata</i> grown under different irradiances and spectra. <i>Bioresource Technology</i> , 2013, 137, 63-73.	4.8	79
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1371	Green fuel production: processes applied to microalgae. <i>Environmental Chemistry Letters</i> , 2013, 11, 315-324.	8.3	48
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1387	Ultrasound assisted extraction of carbohydrates from microalgae as feedstock for yeast fermentation. <i>Bioresource Technology</i> , 2013, 128, 337-344.	4.8	107
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1391	Sustainable Biodiesel Production Using Wastewater Streams and Microalgae in South Africa. , 2013, , 49-67.		0
1392	Quantitative Uncertainty Analysis of Life Cycle Assessment for Algal Biofuel Production. <i>Environmental Science & Technology</i> , 2013, 47, 687-694.	4.6	210
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1404	Scale-up potential of cultivating <i>Chlorella zofingiensis</i> in piggery wastewater for biodiesel production. <i>Bioresource Technology</i> , 2013, 137, 318-325.	4.8	126
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1415	Industrial-strength ecology: trade-offs and opportunities in algal biofuel production. <i>Ecology Letters</i> , 2013, 16, 1393-1404.	3.0	155
1416	Agri-genomics for Microalgal Biofuel Production: An Overview of Various Bioinformatics Resources and Recent Studies to Link OMICS to Bioenergy and Bioeconomy. <i>OMICS A Journal of Integrative Biology</i> , 2013, 17, 537-549.	1.0	41
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1421	Oil extraction by aminoparticle-based H ₂ O ₂ activation via wet microalgae harvesting. <i>RSC Advances</i> , 2013, 3, 12802.	1.7	51
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1423	Optimizing microalgal production in raceway systems. <i>Biotechnology Progress</i> , 2013, 29, 543-552.	1.3	32
1424	In situ ethyl ester production from wet algal biomass under microwave-mediated supercritical ethanol conditions. <i>Bioresource Technology</i> , 2013, 139, 308-315.	4.8	79
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1427	Mapping biofuel field: A bibliometric evaluation of research output. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 28, 82-91.	8.2	65
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1430	Intensity of blue LED light: A potential stimulus for biomass and lipid content in fresh water microalgae <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2013, 148, 373-378.	4.8	176
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1432	High pH-induced flocculationâ€”sedimentation and effect of supernatant reuse on growth rate and lipid productivity of <i>Scenedesmus obliquus</i> and <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2013, 128, 324-329.	4.8	69
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1439	Bioethanol production by heterologous expression of Pdc and AdhII in <i>Streptomyces lividans</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6089-6097.	1.7	14
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1445	In situ hollow fiber membrane facilitated CO ₂ delivery to a cyanobacterium for enhanced productivity. <i>RSC Advances</i> , 2013, 3, 13203.	1.7	9
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1460	The effect of sodium bicarbonate supplementation on growth and biochemical composition of marine microalgae cultures. <i>Journal of Applied Phycology</i> , 2013, 25, 153-165.	1.5	172
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1470	Biodiesel from microalgae: A critical evaluation from laboratory to large scale production. <i>Applied Energy</i> , 2013, 103, 444-467.	5.1	786
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1475	Biochemical activities in <i>Chlorella</i> sp. and <i>Nannochloropsis salina</i> during lipid and sugar synthesis in a lab-scale open pond simulating reactor. <i>Journal of Biotechnology</i> , 2013, 164, 318-329.	1.9	159
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1481	Mechanistic investigation into water tolerance of non-catalytic biodiesel conversion. <i>Applied Energy</i> , 2013, 112, 388-392.	5.1	16
1482	Effects of photobioreactors design and operating conditions on <i>Stichococcus bacillaris</i> biomass and biodiesel production. <i>Biochemical Engineering Journal</i> , 2013, 74, 8-14.	1.8	31
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2014	Enzymatic biodiesel: Challenges and opportunities. <i>Applied Energy</i> , 2014, 119, 497-520.	5.1	423
2015	Effects of wastewater microalgae harvesting methods on polyhydroxybutyrate production. <i>Bioresource Technology</i> , 2014, 156, 364-367.	4.8	21
2016	Isolation, characterization, and validation of oleaginous, multi-trophic, and haloalkaline-tolerant microalgae for two-stage cultivation. <i>Algal Research</i> , 2014, 4, 2-11.	2.4	33
2017	Event-based predictive control of pH in tubular photobioreactors. <i>Computers and Chemical Engineering</i> , 2014, 65, 28-39.	2.0	44
2018	Characterization of microalgae-bacteria consortium cultured in landfill leachate for carbon fixation and lipid production. <i>Bioresource Technology</i> , 2014, 156, 322-328.	4.8	126
2019	Biodiesel production from indigenous microalgae grown in wastewater. <i>Bioresource Technology</i> , 2014, 154, 297-304.	4.8	135
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2021	Simulated sugar factory wastewater remediation kinetics using algal-bacterial raceway reactor promoted by Polyacrylate polyalcohol. <i>Bioresource Technology</i> , 2014, 157, 37-43.	4.8	5
2022	Key parameters for outdoor biomass production of <i>Scenedesmus obliquus</i> in solar tracked photobioreactors. <i>Journal of Applied Phycology</i> , 2014, 26, 2315-2325.	1.5	47
2023	Using polyethylene glycol as nonionic osmoticum to promote growth and lipid production of marine microalgae <i>Nannochloropsis oculata</i> . <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1669-1677.	1.7	10
2024	Analysis and modeling of <i>Nannochloropsis</i> growth in lab, greenhouse, and raceway experiments. <i>Journal of Applied Phycology</i> , 2014, 26, 2303-2314.	1.5	18
2025	Effect of monochromatic illumination on lipid accumulation of <i>Nannochloropsis gaditana</i> under continuous cultivation. <i>Bioresource Technology</i> , 2014, 159, 30-35.	4.8	46
2026	Kinetic modelling of growth and storage molecule production in microalgae under mixotrophic and autotrophic conditions. <i>Bioresource Technology</i> , 2014, 157, 293-304.	4.8	97
2027	Study of algal biomass harvesting through cationic cassia gum, a natural plant based biopolymer. <i>Bioresource Technology</i> , 2014, 151, 6-11.	4.8	62
2028	Effect of <i>Chlorella vulgaris</i> growing conditions on bio-oil production via fast pyrolysis. <i>Biomass and Bioenergy</i> , 2014, 61, 187-195.	2.9	85
2029	Induction of triacylglycerol production in <i>Chlamydomonas reinhardtii</i> : Comparative analysis of different element regimes. <i>Bioresource Technology</i> , 2014, 155, 379-387.	4.8	36
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2032	A novel photobioreactor generating the light/dark cycle to improve microalgae cultivation. <i>Bioresource Technology</i> , 2014, 161, 186-191.	4.8	101
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2035	Media optimization and lipid formation of two native diatoms for cultivation in the Southwest Texas desert. <i>Journal of Applied Phycology</i> , 2014, 26, 2075-2085.	1.5	10
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2038	Statistical Analysis and Modeling of Pelletized Cultivation of <i>Mucor circinelloides</i> for Microbial Lipid Accumulation. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3502-3512.	1.4	13
2039	Optimization of hollow fiber membrane cleaning process for microalgae harvest. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 949-955.	1.2	11
2040	Mixotrophic Cultivation of Microalgae for Biodiesel Production: Status and Prospects. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3307-3329.	1.4	193
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2050	Microalgae flocculation: Impact of flocculant type, algae species and cell concentration. <i>Algal Research</i> , 2014, 3, 30-35.	2.4	119
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2052	Enhanced lipid extraction from algae using free nitrous acid pretreatment. <i>Bioresource Technology</i> , 2014, 159, 36-40.	4.8	58
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2055	The future viability of algae-derived biodiesel under economic and technical uncertainties. <i>Bioresource Technology</i> , 2014, 151, 166-173.	4.8	90
2056	Biodiesel production via lipase catalysed transesterification of microalgae lipids from <i>Tetraselmis</i> sp.. <i>Renewable Energy</i> , 2014, 68, 1-5.	4.3	79
2057	Lipid productivity and fatty acid composition-guided selection of <i>Chlorella</i> strains isolated from Malaysia for biodiesel production. <i>Journal of Applied Phycology</i> , 2014, 26, 1399-1413.	1.5	43
2058	Sources and resources: importance of nutrients, resource allocation, and ecology in microalgal cultivation for lipid accumulation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4805-4816.	1.7	109
2059	Thermoplasticization of euglenoid β -1,3-glucans by mixed esterification. <i>Carbohydrate Polymers</i> , 2014, 105, 90-96.	5.1	35
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2061	Magnetic Flocculant for High Efficiency Harvesting of Microalgal Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 109-115.	4.0	121
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2063	The combined production of ethanol and biogas from microalgal residuals to sustain microalgal biodiesel: A theoretical evaluation. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 7-15.	1.9	43
2064	A Review of Carbon Capture and Sequestration in Iran: Microalgal Biofixation Potential in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 73-100.	8.2	57
2065	Effective extraction of microalgae lipids from wet biomass for biodiesel production. <i>Biomass and Bioenergy</i> , 2014, 66, 159-167.	2.9	176
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2070	Biorefinery concept in a microalgae pilot plant. Culturing, dynamic filtration and steam explosion fractionation. <i>Bioresource Technology</i> , 2014, 163, 136-142.	4.8	54
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2072	Fatty acids and global metabolites profiling of <i>Dunaliella tertiolecta</i> by shifting culture conditions to nitrate deficiency and high light at different growth phases. <i>Process Biochemistry</i> , 2014, 49, 996-1004.	1.8	39
2073	Integration of membrane technology in microalgae biorefineries. <i>Journal of Membrane Science</i> , 2014, 464, 86-99.	4.1	89
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2075	Process characteristics, inhibition factors and methane yields of anaerobic digestion process, with particular focus on microalgal biomass fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 34, 491-500.	8.2	245
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2083	An ultra-low energy method for rapidly pre-concentrating microalgae. <i>Bioresource Technology</i> , 2014, 158, 217-224.	4.8	13
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2086	Evaluation of internally illuminated photobioreactor for improving energy ratio. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 92-98.	1.1	11
2087	Pyrolysis characteristics and kinetics of aquatic biomass using thermogravimetric analyzer. <i>Bioresource Technology</i> , 2014, 163, 18-25.	4.8	84
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2089	Oil Overproduction by Means of Microalgae. , 2014, , 241-273.		7
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2094	Design tool and guidelines for outdoor photobioreactors. <i>Chemical Engineering Science</i> , 2014, 106, 18-29.	1.9	76
2095	Microalgae Versus Land Crops as Feedstock for Biodiesel: Productivity, Quality, and Standard Compliance. <i>Bioenergy Research</i> , 2014, 7, 1002.	2.2	27
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2097	Biobased Fats (Lipids) and Oils from Biomass as a Source of Bioenergy. , 2014, , 185-201.		7
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2106	Screening, Growth Medium Optimisation and Heterotrophic Cultivation of Microalgae for Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 1667-1679.	1.4	31
2107	Effect of photoperiod, light intensity and carbon sources on biomass and lipid productivities of <i>Isochrysis galbana</i> . <i>Biotechnology Letters</i> , 2014, 36, 1653-1660.	1.1	30
2108	Energy-efficient cultivation of <i>Chlamydomonas reinhardtii</i> for lipid accumulation under flashing illumination conditions. <i>Biotechnology and Bioengineering</i> , 2014, 19, 150-158.	1.4	15
2109	Do furanic and phenolic compounds of lignocellulosic and algae biomass hydrolyzate inhibit anaerobic mixed cultures? A comprehensive review. <i>Biotechnology Advances</i> , 2014, 32, 934-951.	6.0	363
2110	Utilization of Agricultural Residues of Pineapple Peels and Sugarcane Bagasse as Cost-Saving Raw Materials in <i>Scenedesmus acutus</i> for Lipid Accumulation and Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 1495-1510.	1.4	54
2111	Optimization of microalgae oil extraction under ultrasound and microwave irradiation. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1779-1784.	1.6	72
2112	Lewis acid-catalyzed in situ transesterification/esterification of microalgae in supercritical ethanol. <i>Bioresource Technology</i> , 2014, 162, 341-349.	4.8	50
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2114	Technical-economic feasibility study of the installation of biodiesel from microalgae crops in the Atacama Desert of Chile. <i>Fuel Processing Technology</i> , 2014, 125, 267-276.	3.7	20
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2117	Effects of fluctuating temperature and silicate supply on the growth, biochemical composition and lipid accumulation of <i>Nitzschia</i> sp.. <i>Bioresource Technology</i> , 2014, 154, 336-344.	4.8	20
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2122	Microalgae for third generation biofuel production, mitigation of greenhouse gas emissions and wastewater treatment: Present and future perspectives – A mini review. <i>Energy</i> , 2014, 78, 104-113.	4.5	301
2123	Semicontinuous nitrogen limitation as convenient operation strategy to maximize fatty acid production in <i>Neochloris oleoabundans</i> . <i>Algal Research</i> , 2014, 5, 1-6.	2.4	31
2124	Biodiesel production from marine microalga <i>Chlorella salina</i> using whole cell yeast immobilized on sugarcane bagasse. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1294-1300.	3.3	40
2125	Extraction of extracellular lipids from chemoautotrophic bacteria <i>Serratia</i> sp. ISTD04 for production of biodiesel. <i>Bioresource Technology</i> , 2014, 165, 201-204.	4.8	22
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2132	Comparison of pretreatment methods for total lipids extraction from mixed microalgae. <i>Renewable Energy</i> , 2014, 63, 762-766.	4.3	98
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2146	Overview of the potential of microalgae for CO2 sequestration. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 2103-2118.	1.8	168
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2148	High resolution FT-ICR mass spectral analysis of bio-oil and residual water soluble organics produced by hydrothermal liquefaction of the marine microalga <i>Nannochloropsis salina</i> . <i>Fuel</i> , 2014, 119, 47-56.	3.4	160
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2150	Turbulent Fluid Acceleration Generates Clusters of Gyrotactic Microorganisms. <i>Physical Review Letters</i> , 2014, 112, 044502.	2.9	92
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2154	Effect of outdoor conditions on <i>Nannochloropsis salina</i> cultivation in artificial seawater using nutrients from anaerobic digestion effluent. <i>Bioresource Technology</i> , 2014, 152, 154-161.	4.8	47
2155	Cultivation of <i>Scenedesmus obliquus</i> in Photobioreactors: Effects of Light Intensities and Light “Dark Cycles on Growth, Productivity, and Biochemical Composition. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 2377-2389.	1.4	97
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